C U SHAH UNIVERSITY

WADHWAN CITY

	Sub	oject Code: 4TE04IEN1 Date:		
		oject Name: Industrial Engineering.		
		arse: B. Tech (Mech)		
	Semester: IV Time: Total Marks: 70			
	11150	Instructions: 1. Make suitable assumptions whenever necessary.		
		 Figures to the right indicate full marks. 		
		3. All questions are compulsory.		
		Section - I		
Q-1	(a)	Define Industrial Estate.	02	
	(b)	List down the steps in work study.	02	
	(c)	What is product development?	03	
Q-2	(a)	What is SEZ? Explain SEZ in India.	05	
	(b)	How Assignments techniques are used for plant layout?	05	
	(c)	Discuss the MRP system.	04	
	(•)	OR	0.	
Q-2	(a)	Discuss dynamic nature of plant location.	05	
	(b)	What is assembly line balancing? Explain with example.	05	
	(c)	Explain the following with neat sketch: i) String diagram ii) Flow diagram.	04	
Q-3	(a)	Discuss different methods of sales forecasting.	07	
	(b)	What is method study? What are the types of job in which method study can be applied? OR	07	
Q-3	(a)	Explain Ergonomics and its applications.	07	
	(b)	What is the difference between an operation process chart and an outline process chart? Section -II	07	
Q-4	(a)	Define job analysis.	02	
	(b)	Explain factory.	02	
	(c)	List the characteristics of an entrepreneur.	03	
Q-5	(a)	The standard time for a particular job is fixed as 8 hours. The hourly wage rate is Rs. 2.5.	05	
		Calculate the daily earning of a worker under Bedaux plan, if i) he takes 7 hours to		
	(l-)	complete the job ii) he takes 8 hours to complete the job.	05	
	(b)	Explain need of industrial legislation.	05	
	(c)	Explain Lot Tolerance Percent Defective (LTPD).	04	
Q-5	(a)	OR A management sets a target of completing 72 jobs for each worker. The workers are	05	
	(a)	promised to pay incentive according to Halsey 50-50 plan. The hourly wage rate is Rs	03	
		1.00. A worker however could complete the whole task in 6 hours only. Calculate the		
		total earnings and hourly wage rate of a worker.		
	(b)	Explain employees provident fund act, 1952.	05	
	(c)	Explain average outgoing quality.	04	
Q-6	(a)	Explain operating characteristic curves with neat sketch.	07	
	(b)	What are different contents of a good project report?	07	
0 -		OR	0.5	
Q-6	(a)	What do you mean by process capability? How it is measuring?	07	
	(b)	Explain the terms: i) Technical feasibility ii) Financial viability.	07	